

This report contains very important information about your drinking water. Please translate it, or speak with

Si usted desea obtener una copia de este reporte en españnol. llamenos al telefono 617-788-1190.

La relazione contiene importanti informazioni sulla qualità dell'acqua della Comunità. Tra-durlo o parlame con un amico che lo comprenda.

importantes sobre a qualidade da विश्वय म बहुत करने वानमार्ग हो agua da comunidade, Tra-duza-o ou peça a alguém que o वर्गीबर्ग, मा किमी जानकार से इस ajude a entendê-lo melhor.

Sprawozdanie zawiera ważne informacje na temat jakości wody w Twojej miejscowści. รล่กิจัดบนิเกาก ฯ ผู้ขบกใน poproś kogoś o przeliumaczenie go lub porozmawiaj z osobą która je dobrze rozumie.

Im Bericht steht wichtige Information über die Qualität des Wassers Ihrer Gemeinschaft. Der Bericht soll übersetzt werden, oder sprechen Sie mit someone who understands it. einem Freund, der ihn gut aversteht.

> 这份报告中有些重要的信息 讲到关于您所在社区的水的品 质。请您找人翻译一下,或者 请能看得懂这份报告的朋友给 您解释一下

この資料には、あなたの飲料水 についての大切な情報が書かれ ています。内容をよく理解する ために、日本語に翻訳して読む か説明を受けてください。

इस रिपोर्ट में 'पीने के पानी'

이 보고서에는 귀하기 거주하는 이 보고서에는 귀하기 거주하는 지역의 수질에 관한 중요한 정보 교리 마모에 되고 하는 전투 가는 이 있습니다. 이것을 반역 가는 이 있습니다. 이것을 반역 하는 한국 이 이해하시는 한국 하는데 충분히 이해하시는 한국 안 살의하십시오.

Η κατοθέν ανοφορα παρουσιαζη σπουδιαις, πληροφορείες για το ποσιμο νέρο σως Πρακαλλο να το μεταφρασείε η να το δολειασετε με καποιον που το καταλαβανη απολητως.



This report is required under the Federal Safe Drinking Water Act Public Law 104-182, Section 1414(c)(4) MWRA PWS ID# 6000000

Where To Go For Further Information

Massachusetts Water Resources Authority (MWRA)	www.mwra.com	617-242-5323
Massachusetts Dept. of Environmental Protection	www.mass.gov/dep	617-292-5500
Department of Conservation and Recreation	www.mass.gov/dcr/watersupply.htm	617-626-1250
Massachusetts Dept. of Public Health (DPH)	www.mass.gov/dph	617-624-6000
US Centers for Disease Control & Prevention (CDC)	www.cdc.gov	800-232-4636
List of State Certified Water Quality Testing Labs	www.mwra.com/04water/html/testinglabs.html	617-242-5323
Source Water Assessment and Protection Reports	www.mwra.com/sourcewater.htm	617-242-5323
Information on Water Conservation	www.mwra.com/conservation.html	617-242-SAVE

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Public Meetings		
MWRA Board of Directors	www.mwra.com/02org/html/boardofdirectors.htm	617-788-1117
MWRA Advisory Board	www.mwraadvisoryboard.com	617-788-2050
Water Supply Citizens Advisory Committee	www.mwra.com/02org/html/wscac.htm	413-213-0454

WaterSense

For a large print version of this report, call 617-242-5323.



Where Does Your Water Come From?

Dear Customer,

This report contains the 2010 test results on your drinking water. Hundreds of thousands of tests confirmed that the quality of your water is excellent. For 2010, MWRA met every federal and state drinking water standard. System-wide, we have been below the Lead Action Level for the past seven years. Please see your community's letter for more information on your local system.

Two upcoming projects will enhance the quality and safe delivery of our water. Soon, we will begin building ultraviolet disinfection facilities at our Carroll Water Treatment Plant. Together with ozone, this will give us two forms of powerful disinfection. Then, we will be constructing a water tank and pumping station in Stoneham to provide storage for six communities, and redundancy for 21 communities in case of an emergency.

You may have heard press reports about a chemical called Hexavalent Chromium, or Chromium 6. Although there are no federal standards for this substance, MWRA has begun voluntary testing for it as recommended by the EPA. In response to the Japanese earthquake, we have also tested for and found no traces of radioactive iodine or cesium. As more information becomes available, we will share it with you at www.mwra.com.

Please take a moment to read the important information in this report. We want you to share our confidence in your drinking water.

Frederick A. Laskey
Executive Director



MWRA Board Of Directors

Richard K. Sullivan, Jr., Chairman, John J. Carroll, Vice-Chair, Joseph C. Foti, Secretary, Joel A. Barrera, Kevin L. Cotter, Michael S. Gove, James W. Hunt III, Vincent G. Mannering, Andrew M. Pappastergion, Marie T. Turner, John J. Walsh

Your Water Comes From The Quabbin Reservoir, about 65 miles west of Boston, and the Wachusett Reservoir, about 35 miles west of Boston. These reservoirs supply wholesale water to local water departments in 51 communities. The two reservoirs combined supplied about 200 million gallons a day of high quality water to consumers in 2010. Your water also comes from local water supplies. Please see page 4 for more information.

The Quabbin and Wachusett watersheds are protected naturally with over 85% of the watersheds covered in forest and wetlands. To ensure safety, the streams and reservoirs are tested often and patrolled daily by the Department of Conservation and Recreation (DCR).

Rain and snow falling on watersheds – protected land around the reservoirs – turn into streams that flow to the reservoirs. This water comes in contact with soil, rock, plants, and other material as it follows its natural path to the reservoirs.

While this process helps to clean the water, it can also dissolve and carry very small amounts of material into the reservoir. Minerals from soil and rock do not typically cause problems in the water. But, water can also transport contaminants from human and animal activity. These can include bacteria, viruses, and fertilizers – some of which can cause illness. The test data in this

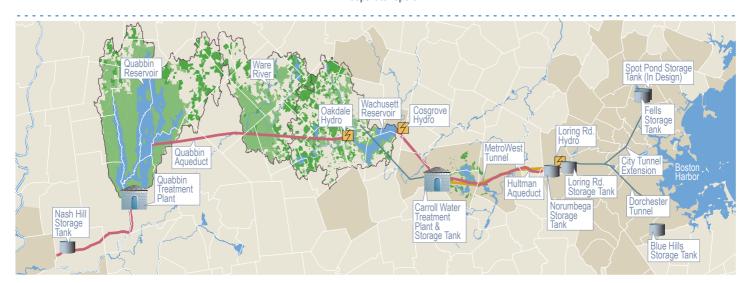
report show that these contaminants are not a problem in your reservoirs' watersheds.

The Department of Environmental Protection (DEP) has prepared a Source Water Assessment Program report for the Quabbin and Wachusett Reservoirs. The DEP report commends DCR and MWRA on the existing source protection plans, and states that our "watershed protection programs are very successful and greatly reduce the actual risk of contamination." The report recommends that we maintain present watershed plans and continue to work with residents, farmers, and other interested parties to maintain the pristine watershed areas. Your water also comes from local supplies that have a separate report.



The Green Choice

As water travels eastward directly to your faucet, clean hydro-energy is produced. MWRA also has wind turbines and solar panels at our Deer Island Plant and solar panels at our Carroll Treatment Plant. Tap water is delivered straight to your home without trucking or plastic waste. Drink tap water and be green!





From the Reservoir to Your Home



Water Treatment The water you drink is treated at the John J. Carroll Water Treatment Plant in Marlborough. The first treatment step is disinfection of reservoir water. MWRA's licensed treatment operators carefully add measured doses of ozone gas bubbles, produced from pure oxygen gas, to the water to kill any pathogens

(germs) that may be present in the water. Fluoride is then added to reduce cavities. Next, the water chemistry is adjusted to reduce corrosion of lead and copper from home plumbing. Last, we add mono-chloramine, a mild and long-lasting disinfectant combining chlorine and ammonia, which protects the water while it is in the local pipelines. Your local water supply may have different treatment. Please see page 4 for more information.

MWRA's Improvements To The Water Supply 2010 marked the 25th anniversary of the MWRA. In that time, MWRA and our community partners have made improvements to the entire water system: from the watersheds, to the aqueducts and tunnels, to treatment plants and to MWRA and local pipelines. These are the largest investments in the water system since the 1930s. MWRA and our community partners continue to make the necessary investments to maintain and upgrade our facilities. Take a look at our 25th anniversary report at www.mwra.com.

Testing Your Water – Every Step Of The Way Test results show few contaminants are found in the reservoir water. The few that are found are in very small amounts, well below EPA's standards. Turbidity (or cloudiness of the water) is one measure of overall water quality. There are two standards for turbidity: all water must be below 5 NTU (Nephelometric Turbidity Units), and can only be above 1 NTU if it does not interfere with effective disinfection. MWRA met both of these standards. Typical levels at the Wachusett Reservoir are 0.4 NTU and were below the 1 NTU over 99.99% of the time. The highest level was 1.69 NTU, but this did not interfere with effective disinfection. MWRA also tests reservoir water for pathogens such as fecal coliform, bacteria, viruses, and the parasites *Cryptosporidum* and *Giardia*. They can enter the water from animal or human waste. All test results were well within state and federal testing and treatment standards.

Test Results – After Treatment EPA and State regulations require many water quality tests after treatment to check the water you are drinking. MWRA conducts tens of thousands of tests per year on over 120 contaminants (for a complete list visit www.mwra.com). For results on your local water supply, please see page 4. The only contaminants found are listed below, and all levels met EPA's standards. The bottom line is that the water quality is excellent.

Test Results - After Treatment

Compound	Units	(MCL) Highest Level Allowed	(We found) Detected Level- Average	Range of Detections	(MCLG) Ideal Goal	Vio- lation	How it gets in the water
Barium	ppm	2	0.009	0.009-0.01	2	No	Common mineral in nature
Mono-chloramine	ppm	4-MRDL	1.8	0-3.6	4-MRDLG	No	Water disinfectant
Fluoride	ppm	4	1.05	0.75-1.15	4	No	Additive for dental health
Nitrate^	ppm	10	0.14	0.03-0.14	10	No	Atmospheric deposition
Nitrite^	ppm	1	0.01	0.01	1	No	Byproduct of water disinfection
Perchlorate	ppb	2	0.06	0.05-0.07	ns	No	Byproduct of water disinfection
Total Trihalomethanes	ppb	80	14	1.9-20.4	ns	No	Byproduct of water disinfection
Haloacetic Acids-5	ppb	60	12.4	0-18	ns	No	Byproduct of water disinfection

KEY: MCL=Maximum Contaminant Level. The highest level of a contaminant allowed in water. MCLs are set as close to the MCLGs as feasible using the best available technology. MCLG=Maximum Contaminant Level Goal - The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. MRDL=Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. MRDLG=Maximum Residual Disinfectant Level Goal. The level of a drinking water disinfectant below which there is no known or expected health risk. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination. **ppm**=parts per million **ppb**=parts per billion **ns**=no standard ^As required by DEP, the maximum result is reported for nitrate and nitrite, not the average.



Massachusetts DEP recommends the installation of backflow prevention devices for inside and outside hose connections to help protect the water in your home as well as the drinking water system in your town. For more information on cross connections, please call 617-242-5323 or visit www.mwra.com/crosscon.html.

NOTICE

Information on the May 1st Boil Water Order

On May 1st of 2010, a major pipe break caused a disruption in water service, and the activation of a back-up water supply. MWRA has several back-up supplies throughout the service area for emergencies. This back-up supply did not meet the high standards of our normal reservoir, and therefore a precautionary boil water order was needed. After repairs and many tests, normal water service was back within 72 hours. If MWRA were to have another emergency, you would be notified via radio, television, newspapers, state and local government, health officials, and by MWRA.



Tests in Community Pipes

MWRA And Local Water Departments

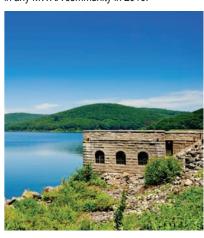
test 300 to 500 water samples each week for total coliform bacteria. Total coliform bacteria can come from the intestines of warm-blooded animals, or can be found in soil, plants, or other places. Most of the time, they are not harmful. However, their presence could signal that harmful bacteria from fecal waste may be there as well. The EPA requires that no more than 5% of the samples in a month be positive. If a water sample does test positive, we run more specific tests for *E.coli*, which is a bacteria found in human and animal fecal waste and may cause illness.



Community	Highest % of positive samples and month	Violation of EPA's 5% limit
Needham	4,3% (Aug)	No
Wakefield	2.1% (Aug)	No
MWRA	0.8% (Aug)	No

How Did We Do In 2010?

The table reports test results from 10 communities that receive some, but not all of their water from MWRA. Total coliform was found in two communities. No *E.coli* was found in any MWRA community in 2010.



Ongoing Research for New Regulations

MWRA has been working with EPA and other researchers to define new national drinking water standards by testing for unregulated contaminants. To better understand the drinking water, MWRA has voluntarily been testing for *Cryptosporidium* and *Giardia* prior to treatment. No *Cryptosporidium* was detected in 2010.

Test Measurement Units		Average			
Giardia	cysts per 100L	9.1			
MWRA's disinfection is designed to kill all					
Giardia					

NDMA nanograms per liter 0.54*

*The result is from 2009. The DEP guidance value for NDMA is 10 ng/L.



Tap Water-The Smart Choice!

Although tap water and bottled water have the same standards, tap water must meet the more intensive EPA testing requirements. Yet, tap water costs less than a penny per gallon delivered straight to your home, while bottled water costs from \$1 to \$8 a gallon.

Drinking Water And People With Weakened Immune Systems Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline (1-800-426-4791).

Contaminants In Bottled Water And

Tap Water Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (1-800-426-4791) or MWRA. In order to ensure that tap water is safe to drink, the Massachusetts DEP and EPA prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) and Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



Sodium in water contributes only a small fraction of a person's overall sodium intake (less than 10%). MWRA tests for sodium monthly and the highest level found was 35.3 mg/l (about 9 mg per 8 oz. glass). This would be considered very low sodium by the Food and Drug Administration.

Water & Sewer Department

121 Glen Road, Wilmington, Massachusetts 01887

Public Water Supply #3342000

Office of the Superintendent 115 Andover Street Wilmington, MA 01887 Telephone (978) 658-4711 Fax (978) 694-2003 TTY (978) 694-1417

Where Does My Water Come From?

The Wilmington Water Department provides drinking water to 99 percent of all the residents and businesses in Wilmington. Most of the water is groundwater, pumped from four wells located throughout Wilmington. Since the discovery of NDMA in the five Maple Meadow Brook aquifer wells, the Water Department does not use these wells. From the wells, the source water is pumped to one of two water treatment plants. There, the water is treated using filtration and disinfection to remove or reduce any harmful contaminants from the source water. From the treatment plants, the water is pumped to one of three storage tanks and to the homes and businesses in Wilmington. To provide the highest protection for the source water, Wilmington has established Zoning, Inhabitant and Board of Health bylaws, which include groundwater protection, floor drain regulations, and water use restrictions. The Town maintains interconnections and agreements with North Reading, Burlington, and Woburn. The MWRA supplies additional water to the Town to supplement water demands our water system cannot meet.

How Is My Water Treated & Purified?

The treatment process begins with aeration, which reduces carbon dioxide levels to lower treatment costs and also improves taste. Next, aluminum sulfate (alum) is added to the water before it passes into the flocculation basins. The alum prompts small particles to coagulate, or stick together, forming floc particles and removing color from the water. The floc particles continue to grow and stick together, becoming heavier before moving into the settling basins. Potassium permanganate is added to oxidize and remove iron and manganese because iron and manganese may cause undesirable color, taste, and odor in water. In the settling basins, the floc particles settle to the bottom forming a layer of solids, which is removed by a siphon device and discharged to lagoons. The clear water at the top of the settling basin flows into the filter basins. The filter basins consist of 4 feet of granular activated carbon (GAC) to remove any remaining fine particles. The GAC filter also removes any remaining taste and odor, volatile organic compounds, and aids in polishing the water as it passes through the filter to the final process steps. Chloramine is a form of chlorine that is created by adding ammonium sulfate to the water after chlorine is added. We have invested in the use of ammonium sulfate, a food-grade substance that safely transforms chlorine to form chloramines. Like chlorine, chloramine also keeps the water safe by protecting against biological growth throughout the distribution system, but it also produces less disinfection by-products. The finished water is pumped throughout the town by our vast underground distribution system of 126 miles and is stored in three water tanks for handling peak demand periods. Our top priority is to provide safe, good-tasting, high-quality drinking water.

Mandatory Outdoor Water Restrictions~ No Outdoor Watering between the hours of 9:00 AM and 5:00 PM. Sprinkler Systems: Both above ground or installed underground, can be used once per week, subject to the restrictions above. VIOLATION OF THESE WATER USE RESTRICTIONS WILL RESULT IN A MINIMUM \$50.00 PER DAY FINE! The Water Department could institute a full outdoor watering ban in the future. Please watch for future notices on WCTV and in your local newspaper. Thank you for your cooperation.

Notice of Noncompliance (NON)~ On November 9, 2010, DEP issued a NON to the Wilmington Water Department for failing to submit the results of water quality samples for Volatile Organic Contaminants and Perchlorate. The samples were collected as required during the July-September 2010 period, but the results were not submitted to the State as required. After receiving the NON, the Water Department followed the NON requirement by submitting the missing results as quickly as possible. No further actions need to be taken by the public or Water Department.

Water & Sewer Commission Meetings~ The Water and Sewer Commission meets the third Thursday of each month, beginning at 5 p.m. at the Town Hall, 121 Glen Road, Wilmington, MA, unless otherwise posted. Please call in advance if you have a specific issue you would like to discuss, and we will be sure to include your topic on our agenda.

SUBSTANCE (Contaminant)	HIGHEST LEVEL DETECTED	RANGE OF DETECTION	MCL	MCLG	SOURCES OF CONTAMINANT
Nitrates (ppm) Nitrites (ppm) Haloacetic Acids (ppb) Trihalomethanes (ppb) Sodium	1.6 0.28 27 64 76	nd-1.6 nd-0.28 nd-27 13-64 42-76	10 1 60 80 na	10 1 na na na	Fertilizer use,erosion of natural deposits Fertilizer use,erosion of natural deposits Byproduct of drinking water disinfection Byproduct of drinking water disinfection Naturally occuring, road runoff
	LEAD AND COPPER				
	90th PERCENTILE	# OF SAMPLES EXCEEDING AL	ACTION LEVEL (AL)		
Lead (ppb) Copper (ppm)	13 0.08	0	15 1.3	0	Corrosion of household plumbing Corrosion of household plumbing

If you would like to see a copy of our SWAP report, it is available at the Wilmington Water Department and online at www.mass.gov/dep/water/drinking/3342000.pdf. For more information call the Wilmington Water Department at (978) 658-4711.

Michael J. Woods, Superintendent Wilmington Water Department



What You Need to Know About Lead In Tap Water

MWRA Water Is Lead-Free when it leaves the reservoirs. MWRA and local pipes that carry the water to your community are made mostly of iron and steel and do not add lead to the water. However, lead can get into tap water through pipes in your home, your lead service line, lead solder used in plumbing, and some brass fixtures. Corrosion or wearing away of lead-based materials can add lead to tap water, especially if water sits for a long time in the pipes before it is used.

In 1996, MWRA began adding sodium carbonate and carbon dioxide to adjust the water's pH and buffering capacity. This change has made the water less corrosive, thereby reducing the

leaching of lead into drinking water. Lead levels found in sample tests of tap water have dropped by almost 90 percent since this treatment change.

MWRA Meets Lead Standards In 2010 Under EPA rules, each year MWRA and your local water department must test tap water in a sample of homes that are likely to have high lead levels. These are usually homes with lead service lines or lead solder. The EPA rule requires that 9 out of 10, or 90%, of the sampled homes must have lead levels below the Action Level of 15 parts per billion (ppb).

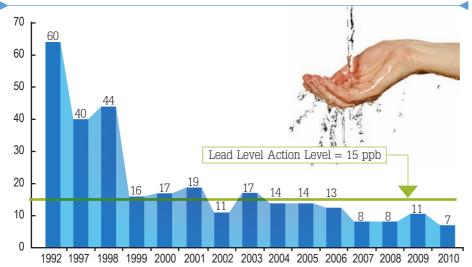
The following results are for the MWRA system. All 14 sampling rounds over the past seven years have been below the EPA standard. Results for the 450 samples taken in September 2010 are shown in the table. 9 out of 10 houses were below 7.03 ppb, which is below the Action Level of 15 ppb. For lead and copper results for your local water supply, please see page 4.

September 2010 Lead & Copper Results

-							
		Range	90% Value	(Target) Action Level	(Ideal Goal) MCLG	# Homes Above AL/ # Homes Tested	
	Lead	0.07-57.5	7	15	0	10/450	
	Copper	0.003-0.3	0.1	1.3	0	0/450	

KEY: AL= Action Level - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. Definition of **MCLG** available on page 4.

90% Lead Levels in MWRA Fully Served Communities 1992 - 2010





Important Lead Information from EPA

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. MWRA is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at www.epa.gov/safewater/lead.

What Can I Do

to reduce exposure to lead in drinking water?

- Run the tap until after the water feels cold. To save water, fill a pitcher with fresh water and place in the refrigerator for future use.
- Never use hot water from the faucet for drinking or cooking, especially when making baby formula or other food for infants.
- Ask your local water department if there is a lead service line leading to your home.
- Check your plumbing fixtures to see if they are lead-free. Read the labels closely.
- Test your tap water. Call the MWRA Drinking Water Hotline (617-242-5323) or visit our website for more tips and a list of DEP certified labs that can test your water.
- Be careful of places where you may find lead in or near your home. Paint, soil, dust and some pottery may contain lead.
- Call the MA Department of Public Health at 1-800-532-9571 or EPA at 1-800-424-LEAD for health information.